

OPPORTUNITIES IN PATHOLOGY

for High School, College, Post-Baccalaureate and Medical Students
compiled by the Association of Pathology Chairs (October 2017)



www.apcprods.org

Type/Target	Program Name	Medical School	Deadline
SUMMER INTERNSHIPS			
...for High School Students	RISE Summer Internship Program <i>Bay Area students only</i>	Stanford University	02/14/2018
...for High School or College Students	High School/College Student Summer Internship	Stanford University	03/01/2018
...for College Students	Summer Research Internship Program (SRIP)	University of Virginia	02/01/2018
	Summer Research	East Carolina University Brody School of Medicine	05/01/2018
SHADOWING			
...for College Students	University of California, San Francisco	University of California, San Francisco	12/01/2017
	Service with a Purpose	University of Mississippi	12/20/2017
POST-BACCALAUREATE PROGRAMS			
...for bachelor degree holders	Clinical Anatomy Certificate Program (Summer)	Eastern Virginia Medical School	03/31/2018
	Neuropathology (1 semester)	Stanford University	06/30/2018
	Certificate Program (1 Year)	Florida International University, Miami, FL	06/15/2018
SUMMER FELLOWSHIPS			
...for Medical Students	Guido Majno Fellowship in Pathology	University of Massachusetts Medical School	02/01/2018
	Angevine Fellowship	University of Wisconsin	03/09/2018
	Klionsky Summer Research Fellowship in Pathology	University of Pittsburgh Medical Center	03/30/2018
POST-SOPHOMORE FELLOWSHIPS IN PATHOLOGY			
...for Medical Students	University of Minnesota Medical School		12/01/2017
	University of New Mexico Health Sciences Center/School of Medicine		12/01/2017
	William B. Hawkins Fellowship at the University of Rochester		01/01/2018
	Pre-Clinical Student Fellowship at the University of Toledo		01/12/2018
	University of Kansas Medical Center		01/31/2018
	Stanford University		02/15/2018
	University of Utah School of Medicine		03/01/2018
	Banner University Medical Center-Tucson/University of Arizona		03/01/2018
	Brigham and Women's Hospital		03/05/2018
	Duke University		03/17/2018
	Dartmouth Hitchcock Medical Center		03/30/2018
	David Geffen School of Medicine, UCLA		03/31/2018
	University of Mississippi Medical Center		04/30/2018
	Oregon Health & Science University		06/30/2018
Ohio State University		08/01/2018	
Albert Einstein College of Medicine		09/30/2018	

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SUMMER INTERNSHIPS for High School Students

RISE SUMMER INTERNSHIP PROGRAM (Bay Area students only)

Stanford University

Overview: Great research program for high school students in the Bay Area. **Pathology:** University wide program that includes Pathology. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** https://oso.stanford.edu/files/programs_271.pdf. **Website:** <https://oso.stanford.edu/programs/39-rise-summer-internship-program>. **Contact:** Maiken Bruhis, Administrator: mbruhis@stanford.edu | **Application Deadline:** 02/14/2018

SUMMER INTERNSHIPS for High School or College Students

HIGH SCHOOL/COLLEGE STUDENT SUMMER INTERNSHIP

Stanford University - Department of Pathology, Stanford, CA

Overview: Research experience for interested student. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** No. **Tuition/Fees?** No. **Basic Criteria:** Case by case. **Contact:** Teri Longacre: longacre@stanford.edu | **Application Deadline:** 03/01/2018

SUMMER INTERNSHIPS for College Students

SUMMER RESEARCH INTERNSHIP PROGRAM (SRIP)

University of Virginia - Department Of Pathology, Charlottesville, VA

Overview: SRIP provides an immersive, 10-week summer research experience coupled with professional development opportunities and communication workshop designed to prepare students for success with subsequent graduate school and/or medical school applications. **Pathology:** Pathology as one component of a more integrated and broader experience. **Paid?** Yes program provides roundtrip travel, housing near the School of Medicine, and a generous stipend. **Tuition/Fees?** No. **Recognition:** Certificate of completion. **Basic Criteria:** Application requires two short essays covering interests and goals, transcript(s) and letters of recommendation. Prior research experience is NOT required. **Website:** <https://med.virginia.edu/srip>. **Contact:** Janet V. Cross, Assistant Dean for Graduate Research and Training: cross@virginia.edu | (434) 243-9401 | **Application Deadline:** 02/01/2018

SUMMER RESEARCH

East Carolina University Brody School of Medicine,
Department of Pathology and Laboratory Medicine, Greenville, NC

Overview: Opportunity to be involved with research in the Department of Pathology. **Pathology:** Research with undergrads. **Paid?** No. **Tuition/Fees?** No. **Recognition:** Research will be submitted for poster presentation at a national meeting. **Basic Criteria:** Undergraduate student interested in medical school. Pathology interest desired. **Additional Info:** A stipend for the student will be considered but is not guaranteed. **Contact:** Peter Kragel, Chair: kragelp@ecu.edu | (252) 847-4951 | **Application Deadline:** 05/01/2018

INFORMAL SHADOWING for College Students

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Department of Pathology, San Francisco, CA

Overview: Students with an existing UCSF affiliation are invited to contact UCSF Pathology for a possible informal shadowing experience, 1 day/week. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** No. **Tuition/Fees?** No. **Recognition:** There is no certificate or degree available. This experience is open to college students and above. **Basic Criteria:** Student must have existing UCSF affiliation and a current CV at the time of inquiry. Accommodations will be made based on space in our electives. **Website:** www.pathology.ucsf.edu | **Contact:** Raga Ramachandran, MD, PhD, Director of Medical Education: raga.ramachandran@ucsf.edu | **Application Deadline:** 12/01/2017

INFORMAL SHADOWING for College Students

DR. BAJESTANI'S LEAN TEAM: SERVICE WITH A PURPOSE

University of Mississippi Medical Center
Department of Pathology, Jackson, MS

Overview: Hands-on experience in application of LEAN leadership behaviors and practices in administrative medicine. On-going throughout the year, at least one summer/semester. **Pathology:** Pathology as one component of a more integrated and broader experience. Observership for College students, Pre-Med students, and Graduate students. **Paid?** No. **Tuition/Fees?** No. **Recognition:** Students will present their process improvement projects in local scientific meetings (including research day). Also, they receive a letter of recommendation outlining their exposure to and experience in process improvement and LEAN leadership. College students, Pre-Med students, and Graduate students. **Basic Criteria:** College or Premed student completion of background checks and HIPAA training as per UMMC regulations (we will coordinate with the UMMC for this, and it is at no cost to the student). **Additional Info:** This is our third year. This team has contributed significantly to the institution, by solving seemingly unsolvable problems. Also, students have benefited from their participation: They very often report receiving great feedback during their graduate training. **Contact:** Saeed N. Bajestani, MD and Marsha Burton; Associate Professor of Pathology and Ophthalmology, Director of Breast Division, Director of Immunohistochemistry Laboratory: sbajestani@umc.edu | (601) 815-9304 and (601) 984-1530 | **Application Deadline:** 12/20/2017

POST-BACCALAUREATE PROGRAMS

(already attained a Bachelor's degree)

CLINICAL ANATOMY CERTIFICATE PROGRAM (Summer)

Eastern Virginia Medical School
Department of Pathology and Anatomy, Norfolk, VA

Overview: Full human dissection anatomy course worth 5 graduate credits. **Pathology:** Clinical Gross Anatomy. **Paid?** No. **Tuition/Fees?** Yes. **Recognition:** Certificate. **Basic Criteria:** Bachelor's degree. **Website:** http://www.evms.edu/education/masters_programs/contemporary_human_anatomy/certificate_in_anatomy/ | **Contact:** Carrie Elzie, Director: elzieca@evms.edu | (757) 446-5787 | **Application Deadline:** 03/31/2018

NEUROPATHOLOGY (1 semester)

Stanford University School of Medicine
Department of Pathology, Stanford, CA

Overview: We are developing many tests for use in brain and pituitary tumor samples. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** No. **Tuition/Fees?** No. **Basic Criteria:** Bachelors degree with some experience in biological sciences. **Contact:** Donald Born, Faculty: donborn@stanford.edu | (540) 723-6041 | **Application Deadline:** 06/30/2018

CERTIFICATE PROGRAM (1 Year)

Florida International University, Miami, FL

Overview: Students attempting to gain admission to med school who may have failed on the first attempt. **Pathology:** Pathology as one component of a more integrated and broader experience. **Paid?** No. **Tuition/Fees?** Yes. **Recognition:** Certificate. **Basic Criteria:** Bachelor's degree. **Additional Info:** The majority of graduates have gained admission to med school following completion of this program. **Contact:** Dr. Barbra Roller: Barbra.Roller@fiu.edu | (305) 348-0644 and (305) 348-7289 | **Application Deadline:** 06/15/2018

This compilation of opportunities in Pathology for students is based on voluntary submissions from departmental members of the Association of Pathology Chairs (APC), and is not a comprehensive list. There are many other resources on the Internet for programs and experiences available, such as listings at the AAMC and NIH.

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SUMMER FELLOWSHIP for Medical Students

GUIDO MAJNO FELLOWSHIP IN PATHOLOGY University of Massachusetts Medical School Department of Pathology, Worcester, MA

Overview: Educational, clinical, and research experience and exposure to the field and practice of pathology for medical students during summer between 1st and 2nd year. **Pathology:** Only a Pathology/Lab Medicine experience; Summer Fellowship for Medical Students. **Paid?** Yes. **Tuition/Fees?** No. **Basic Criteria:** good academic standing on first year courses. **Website:** Internal applicants only. **Contact:** Vijay Vanguri, MD, Associate Professor of Pathology: vijay.vanguri@umassmed.edu | (774) 443-2204 | **Application Deadline:** 02/01/2018

ANGEVINE FELLOWSHIP University of Wisconsin

Department of Pathology and Laboratory Medicine, Madison, WI
Overview: A 10 week internship providing exposure to modern pathology practice while furthering medical education; fellows will rotate through 8 pathology services over the summer while receiving daily correlating pathology didactics. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes \$2400 for 10 wk internship (includes up to 1 wk of vacation). **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Requires satisfactory completion of first year of medical school. Up to 4 Angevine Fellows accepted per year. **Additional Info:** Article regarding Angevine Experience: <https://www.ncbi.nlm.nih.gov/pubmed/27016489>. **Website:** <https://www.pathology.wisc.edu/education/fellowships/angevine>. **Contact:** Erin Brooks, MD, Director, Associate Prof of Pathology: egbrooks@wisc.edu | (608) 265-0884 | **Application Deadline:** 03/09/2018

KLIONSKY SUMMER RESEARCH FELLOWSHIP IN PATHOLOGY University of Pittsburgh Medical Center Department of Pathology, Pittsburgh, PA

Overview: UPMC Klionsky Summer Research Fellowship in Pathology for MS1 students - earn a stipend (if eligible) while performing research in disease mechanisms and learning about pathology as a career through fun activities! **Pathology:** Only a Pathology/Lab Medicine experience. Summer Research and Clinical Experience in Pathology after MS1 year. **Paid?** Yes \$3000, if eligible and funds available. **Tuition/Fees?** No. **Basic Criteria:** MS1 Student from U.S. Medical School in good standing. **Additional Info:** Up to 6 applicants accepted per year, depending on availability of funds. **Website:** <http://path.upmc.edu/KlionskyFellowship.pdf>. **Contact:** Wendy Mars, PhD, Director: wmars@pitt.edu | (412) 648-9690 | **Application Deadline:** 03/30/2018

POST-SOPHOMORE FELLOWSHIPS IN PATHOLOGY (1 Year)

UNIVERSITY OF MINNESOTA MEDICAL SCHOOL

Department of Laboratory Medicine and Pathology, Minneapolis, MN
Overview: Come try out pathology for a year in a paid, immersive experience similar to being a first year resident! A post-sophomore year fellowship (PSF) that will give you an excellent hands-on opportunity to experience what it is like to be a clinical and anatomical pathologist. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** MD degree with completion of first two years of medical school - will consider candidates after year 3. **Additional Info:** Only accept US medical school students **Website:** <https://www.pathology.umn.edu/learning-opportunities/post-sophomore-year-pathology-fellowship-medical-students>. **Contact:** John Crosson, MD, Program Director: cross008@umn.edu | (612) 624-8133 | **Application Deadline:** 12/01/2017

POST-SOPHOMORE FELLOWSHIPS IN PATHOLOGY (1 Year)

DARTMOUTH HITCHCOCK MEDICAL CENTER

Department of Pathology and Laboratory Medicine, Lebanon, NH
Overview: A 10-12 month clinical and surgical pathology fellowship with research opportunity. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Current medical student in good standing, with support of the medical school. **Website:** http://med.dartmouth-hitchcock.org/pathology/student_fellowships.html. **Contact:** Wendy Wells, Chair: Wendy.A.Wells@hitchcock.org
Application Deadline: 03/30/2018

UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER / SCHOOL OF MEDICINE

Department of Pathology, Albuquerque, NM
Overview: One year program encompassing anatomic and clinical pathology rotations geared primarily toward UNM School of Medicine students successfully completing their first two years of their medical school curriculum. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Applicants must be in good standing at the conclusion of their second year of medical school and should have successfully completed the Step 1 examination. **Website:** <https://pathology.unm.edu/fellowships/post-sophomore-student-pathology-fellowship.html>. **Contact:** Christina Garcia-Tenorio, Medical Education Program Specialist: cgtenorio@salud.unm.edu | (505) 925-0516
Application Deadline: 12/01/2017

WILLIAM B. HAWKINS POST-SOPHOMORE FELLOWSHIP UNIVERSITY OF ROCHESTER

Department of Pathology and Laboratory Medicine, NY
Overview: Year out experience in pathology. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Other (please specify). **Basic Criteria:** Application. **Website:** <https://www.urmc.rochester.edu/pathology-labs/education/medical-students.aspx>
Application Deadline: 01/01/2018

PRE-CLINICAL STUDENT FELLOWSHIP

University of Toledo - Department of Pathology, Toledo, OH
Overview: The University Of Toledo College Of Medicine Pre-Clinical Pathology Fellowship Program is a one-year graduate certificate program that provides post-second year medical students with an opportunity to engage in an in-depth study of the pathogenesis of disease. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** Yes. **Recognition:** Certificate. **Basic Criteria:** Medical students in good academic standing who have completed the first two years of an LCME-accredited medical school curriculum and have sat for USMLE Step 1. **Website:** <http://www.utoledo.edu/med/depts/path/Post-SophomoreFellowship.html>. **Contact:** Theresa Imre, Education Coordinator: theresa.imre@utoledo.edu | (419) 383-4918 | **Application Deadline:** 01/12/2018

UNIVERSITY OF KANSAS MEDICAL CENTER

Department of Pathology and Laboratory Medicine, Kansas City, KS
Overview: After completing second year, medical students will be selected to spend one year with the Department of Pathology gaining clinical and research experience in pathology by participating in anatomic and clinical pathology rotations. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Completed two years of medical school. **Website:** [http://www.kumc.edu/school-of-medicine/pathology/undergraduate-medical-education-programs/post-sophomore-fellowship-\(psf\).html](http://www.kumc.edu/school-of-medicine/pathology/undergraduate-medical-education-programs/post-sophomore-fellowship-(psf).html). **Contact:** Zoe Baldwin, Assistant Director Pathology Education: zbaldwin@kumc.edu | (913) 588-7192 | **Application Deadline:** 01/31/2018

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POST-SOPHOMORE FELLOWSHIPS IN PATHOLOGY (1 Year)

STANFORD UNIVERSITY - Department of Pathology, Stanford, CA

Overview: A flexible year that can accommodate the individual interests of medical students who have completed at least their pre-clinical years. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Must be enrolled in a U.S. medical school. Must have completed preclinical education. May have taken clerkships. **Website:**

http://pathology.stanford.edu/education/postsoph_fellows.html

Contact: Megan Troxell, MD, PhD and John Higgins, MD, Co-Directors: megant@stanford.edu, john.higgins@stanford.edu (650) 724-4340 | **Application Deadline:** 02/15/2018

UNIVERSITY OF UTAH SCHOOL OF MEDICINE

Department of Pathology, Salt Lake City, UT

Overview: This fellowship is designed to consolidate the student's understanding of basic mechanisms of disease, enhance their knowledge of normal and pathologic anatomy, and develop an awareness for the relationship a clinical laboratory has with effective patient. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Students must have successfully completed the first two years of medical school and be in good standing in the School of Medicine to be eligible for the Program. **Website:**

<http://medicine.utah.edu/pathology/fellowships/psf/>. **Contact:** Kajsa Affolter, Fellowship Director: kajsa.affolter@hsc.utah.edu or ashleigh.mckensie@path.utah.edu | (801) 587-4563 |

Application Deadline: 03/01/2018

BANNER UNIVERSITY MEDICAL CENTER-TUCSON/UNIVERSITY OF ARIZONA - Department of Pathology, Tucson, AZ

Overview: University of Arizona second-year medical students. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** U of Arizona student; competitive. **Contact:** Dr. Erika Bracamonte, Chief, Post-Sophomore Fellowship: erikab@pathology.arizona.edu | **Application Deadline:** 03/01/2018

THE ROLE OF PATHOLOGY IN CONTEMPORARY PATIENT CARE AND BIOMEDICAL RESEARCH

Brigham & Women's Hospital, Department of Pathology, Boston, MA

Overview: Goals: Foundational education, hands-on experience, and translational research opportunities using pathologic basis of disease to inform diagnosis, therapy, prevention, and research. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Applicants should have completed all their pre-clinical coursework, and may get more from the experience after having completed their core clinical year. Applicants should have a strong interest in academic medicine, and an excellent fund of clinical knowledge. **Additional Info:** Fellowship year to begin July 1, 2018. **Contact:** Richard Mitchell, MD, PhD, Director: rmitchell@partners.org | (617) 525-4303 | **Application Deadline:** 03/05/2018

DUKE UNIVERSITY

Department of Pathology, Durham, NC

Overview: Post sophomore or junior medical student. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes Graduate student Year 1 salary and benefits. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Post sophomore or junior medical student. **Website:** <https://pathology.duke.edu/education/medical-school-education/pathology-post-sophomore-fellowship>.

Contact: Ms. Debra Andersen, Admin Coordinator: debra.andersen@duke.edu | (919) 684-2070 | **Application Deadline:** 03/17/2018

POST-SOPHOMORE FELLOWSHIPS IN PATHOLOGY (1 Year)

DAVID GEFFEN SCHOOL OF MEDICINE, UCLA

Department of Pathology and Laboratory Medicine, Los Angeles, CA

Overview: Applicants must have completed at least two years in an accredited U.S. or Canadian medical school prior to the fellowship. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Curriculum Vitae - Your most recently updated C.V., Cover Letter, Personal Statement - Described why you are interested in the fellowship; Provide copy of USMLE Step 1; 2-3 letters of reference required. **Website:** <http://pathology.ucla.edu/post-sophomore-fellowship>

Contact: Annetta Pierro, Coordinator: apierro@mednet.ucla.edu (310) 825-5719 | **Application Deadline:** 03/31/2018

SYDNEY A. COLEMAN POST-SOPHOMORE FELLOWSHIP

University of Mississippi Medical Center

Department of Pathology, Jackson, MS

Overview: Medical students above M2 level. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Medical students. **Website:** <https://www.ums.edu/som/Departments%20and%20Offices/SOM%20Departments/Pathology/Educational-Programs/Post-Sophomore-Fellowship.html>. **Contact:** William Daley, Coordinator: wdaley@umc.edu | **Application Deadline:** 04/30/2018

OREGON HEALTH & SCIENCE UNIVERSITY

Department of Pathology, Portland, OR

Overview: Currently open only to OHSU students, Pathology student fellows are fully integrated into the daily case work of the Pathology Department, working alongside residents, and working closely with faculty, often in a one-on-one setting. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No. **Recognition:** Certificate. **Basic Criteria:** Currently only accepting students from OHSU. **Website:** <http://www.ohsu.edu/xd/education/schools/school-of-medicine/departments/clinical-departments/pathology/education/medical-students/pathology-student-fellowship.cfm>. **Contact:** Qiana Davis, Education Coordinator: davisq@ohsu.edu | **Application Deadline:** 06/30/2018

MED STUDENT MENTORSHIP IN PATHOLOGY

The Ohio State University - Department of Pathology, Columbus, OH

Overview: OSU College of Medicine - Medical Students. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** No. **Tuition/Fees?** No. **Recognition:** Experiential Only. **Basic Criteria:** OSU Medical Student. **Contact:** Courtney Saby, Program Manager: Courtney.Saby@osumc.edu | (614) 293-3055 | **Application Deadline:** 08/01/2018

ALBERT EINSTEIN COLLEGE OF MEDICINE

Department of Pathology, Bronx, NY

Overview: Applications generally for in-house medical students. A year of Pathology research with some clinical experience is expected. **Pathology:** Only a Pathology/Lab Medicine experience. **Paid?** Yes. **Tuition/Fees?** No In-house students are exempt from fees beyond the usual 4 year tuition. **Recognition:** Certificate. **Basic Criteria:** Experience, interest and interview. **Additional Info:** This is a program designed to recruit the best academic pathology candidates into the field, and perhaps into our residency pool. **Website:** <http://einstein.yu.edu/departments/pathology/post-sophomore-year-fellowship.aspx>. **Contact:** Dr. J. J. Steinberg, Director of Residency Program: jsteinbe@montefiore.org | (718) 920.6573 | **Application Deadline:** 09/30/2018